

**JP4320696A2: METHOD FOR QUANTITATIVELY DETERMINING
SUBSTANCE UTILIZING ACTIVE OXYGEN**

Country: JP Japan
Kind: A

Inventor: KONO MASAHIRO;
YAMADA MASAKO;

Assignee: JEOL LTD
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Abstract:

PURPOSE: To provide a method for quantitatively determining a substance such as vitamin C acting on the production system of active oxygen.

CONSTITUTION: A substance such as vitamin C capable of eliminating active oxygen is added to a production system for producing the active oxygen using oxygen or a peroxide as a substrate to capture the residual active oxygen with a spin trapping agent and measure the amount of the spin adduct with an electron spin resonator. A vitamin C oxidase, etc., capable of inhibiting function of the vitamin C is simultaneously added to similarly carry out measurement. Thereby, the amount of the substance eliminating the active oxygen or the substance capable of inhibiting the eliminator for the active oxygen in test solutions containing various substances reactive with the active oxygen is selectively determined from the difference in the measured values between both.

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